



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
Group Art Unit 1626

IFW

In re

Patent Application of

David Edwin Thurston, et al.

Application No. 10/824,743

Confirmation No.: 7033

Filed: April 15, 2004

Examiner: Coppins, Janet L.

"COLLECTION OF COMPOUNDS"  
INFORMATION DISCLOSURE STATEMENT  
PURSUANT TO 37 CFR §1.97(b)

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

The Examiner's attention is directed to the references which are listed on the attached Form PTO/SB/08A and PTO/SB/08B and copies of non-U.S. patent references are attached.

Also, the Examiner's attention is directed to:

1. U.S. Patent Application Serial No. 09/763,767, filed 2/26/2001.  
\_\_\_\_\_  
Examiner's Initials

Applicants request that the Examiner initial the above once considered.

Citation of these references is respectfully requested.

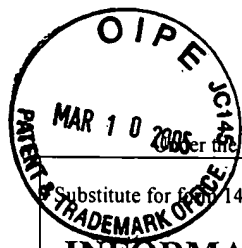
No concession is made that these documents are prior art, and Applicant expressly reserves the right to antedate the documents as may be appropriate.

Respectfully submitted,

*Charlene L. Yager*  
Charlene L. Yager  
Reg. No. 48,887

File No. 065435-9035

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Substitute for Form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

**Complete if Known**

Sheet	1	of	2	Application Number	10/824,743
				Filing Date	April 15, 2004
				First Named Inventor	David Edwin Thurston
				Group Art Unit	1626
				Examiner Name	Coppins, Janet L.
				Attorney Docket Number	065435-9035

**U.S. PATENT DOCUMENTS**

Examiner Initials		U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
		3,523,941	Leimgruber et al.	8/11/1970
		3,524,849	Batcho et al.	8/18/1970
		4,185,016	Takanabe et al.	1/22/1980
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		4,309,437	Ueda et al.	1/5/1982
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		6,747,144	Thurston et al.	6/8/2004
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		2004-0092736	Thurston et al.	5/13/2004

**FOREIGN PATENT DOCUMENTS**

Examiner Initials		Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract
		WO	88/07378	Cancer Research Campaign Technology Ltd.	10/6/1988		
		WO	89/10140	Cancer Research Campaign Technology Ltd.	11/2/1989		
		WO	92/19620 D	Centre National de la Recherche Scientifique	11/12/1992		

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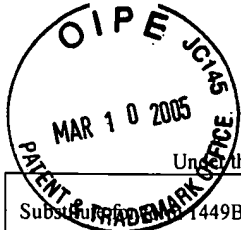
Examiner Initials		Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract
		WO	93/08288	Cancer Research Campaign Technology Ltd.	4/29/1993		
		WO	93/18045	Cancer Research Campaign Technology Ltd.	9/16/1993		
		WO	97/01560 D	Pharmacopeia, Inc.	1/16/1997		
		WO	00/12506	The University of Portsmouth Higher Education Corp.	3/9/2000		
		WO	00/12507	The University of Portsmouth Higher Education Corp.	3/9/2000		
		EP	0239400A2	Winter, G.P.	9/30/1987		
		FR	2027356	Fujisawa Pharmaceutical Co. Ltd.	12/29/1969		
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		GB	1299198 D	Fujisawa Pharmaceutical Co. Ltd.	12/6/1972		
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		JP	57131791	Fujisawa Pharmaceutical Co. Ltd.	8/14/1982		
		JP	58180487	Kyowa Hakko Kogyo Co. Ltd.	10/21/1983	X	

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Substantive Ref. 1449B/PTO

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				Filing Date	April 15, 2004
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**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc. ), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
		ALBERICIO, F. et al., "NPE-Resin, A New Approach to the Solid-Phase Synthesis of Protected Peptides and Oligonucleotides II. Synthesis of Protected Peptides <sup>1,2</sup> ," <i>Tetrahedron Letters</i> , 32:1515-1518 (1991)
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		ARISTOFF, J and JOHNSON, P., "Synthesis of CBI-PDE-I-Dimer, the Benzannelated Analogue of CC-1065," <i>J. Org. Chem.</i> , 57, 6234-6239 (1992)
		BAGSHAW et al., "Antibody-Enzyme Conjugates Can Generate Cytotoxic Drugs from Inactive Precursors at Tumor Sites," <i>Antibody, Immunoconjugates, and Radiopharmaceuticals</i> , 4, 915-922 (1991)
		BARALDI, P.G. et al., "Design, synthesis and biological activity of a pyrrolo[2,1-c][1,4]benzodiazepine (PBD)-distamycin hybrid," <i>Bioorganic &amp; Medicinal Chemistry Letters</i> , vol. 8, No. 21, 3019-3024 (1998)
		BARALDI, P.G. et al., "Synthesis, in Vitro Antiproliferative Activity, and DNA-Binding Properties of Hybrid Molecules Containing Pyrrolo[2,1-c][1,4]benzodiazepine and Minor-Groove-Binding Oligopyrrole Carriers," <i>J. Med. Chem.</i> , 42, 5131-5141 (1999)
		BAYLEY, H. et al., "Photoactivatable drugs," <i>TIPS</i> , 8, 138-143 (1987)

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			Filing Date	April 15, 2004	
			First Named Inventor	David Edwin Thurston	
			Group Art Unit	1626	
			Examiner Name	Coppins, Janet L.	
Sheet	2	of	14	Attorney Docket Number	065435-9035

**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc. ), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
		BERRY, J. M. et al., "Solid-phase synthesis of DNA-interactive pyrrolo[2,1-c][1,4]benzodiazepines," <i>Tetrahedron Letters</i> , 41, 6171-6174 (2000)
		BI, Y. et al., "Building blocks for peptide and carbamate libraries", <i>Bioorganic &amp; Medicinal Chemistry Letters</i> , vol. 6, No. 19, 2299-2300 (1996)
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		BOGER et al., "CC-1065 and the Duocarmycins: Synthetic Studies," <i>Chem. Rev.</i> , 97, 787-828 (1997)
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		BUNDGAARD, H., "Design and Application of Prodrugs," <i>A Textbook of Drug Design and Development</i> , eds Krogsgaard-Lassen, P., and Bundgaard, H., Harwood Academic Press, 113-135 (1991)

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			Group Art Unit	1626	
			Examiner Name	Coppins, Janet L.	
Sheet	3	of	14	Attorney Docket Number	065435-9035

**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc. ), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
		BURGESS, K. et al., "Solid Phase Synthesis of Oligoureas", <i>J. Am. Chem. Soc.</i> , 119: 1556-1564 (1997)
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		DALTON, S. and TREISMAN, R, "Characterization of SAP-1, a Protein Recruited by Serum Response Factor to the c-fos Serum Response Element," <i>Cell</i> , 68, 597-612 (1992)
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Sheet	4	of	14	Attorney Docket Number	065435-9035

**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

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		DRESSMAN, B.A., et al., "Solid Phase Synthesis of Hydantoins Using a Carbamate Linker and a Novel Cyclization/Cleavage Step," <i>Tetrahedron Letters</i> , 37, 937-940 (1996)
		DROST, K.J. and CAVA, M.P., "A Photochemically Based Synthesis of the Benzannelated Analogue of the CC-1065 A Unit," <i>J. Org. Chem.</i> , 56:2240-2244 (1991)
		EASHOO, M. et al., "Fibers from a Low Dielectric Constant Fluorinated Polyimide: Solution Spinning and Morphology Control," <i>J. Polymer Science</i> , 35:173-185 (1997)
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		FIGLIOZZI, G.M. et al., "Synthesis of N-substituted Glycine Peptoid Libraries," <i>Methods in Enzymology</i> , 267: 437-447 (1996)

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		FOLOPPE, M.P. et al., "DNA-binding properties of pyrrolo[2,1-c][1,4]benzodiazepine N10-C11 amidines," <i>Eur. J. Med. Chem.</i> , 31, 407-410 (1996)
		FUJISAWA PHARMACEUTICAL CO., LTD., Abstract No. 139983k, "Benzodiazepine derivatives", <i>Chemical Abstracts</i> , vol. 99, No. 17, 603 (1983)
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		FUJISAWA PHARMACEUTICAL CO., LTD., "Benzodiazepine derivatives," <i>SciFinder Scholar</i> , 2-3 (2002)
		FUKUYAMA, T. et al., "Total Synthesis of (+)-Porothramycin B," <i>Tetrahedron Letters</i> , vol. 34, 16, 2577-2580 (1993)
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		GARCIA-ECHEVERRIA, C., "A Base Labile Handle for Solid Phase Organic Chemistry", <i>Tetrahedron Letters</i> , 38,52, 8933-8934 (1997)
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		GREENE, T.W. and WUTS, P.G.M., <i>Protective Groups in Organic Synthesis</i> , John Wiley & Sons, 2 <sup>nd</sup> ed., Ch 7, 315-345 (1991)

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		GREGSON, S. et al., "Synthesis of a novel C2/C2'-exo unsaturated pyrrolobenzodiazepine cross-linking agent with remarkable DNA binding affinity and cytotoxicity," <i>Chemical Communications</i> , 797-798 (1999)
		GREGSON, S.J. et al., "Design, Synthesis and Evaluation of a Novel Pyrrolobenzodiazepine DNA-Interactive Agent with Highly Efficient Cross-Linking Ability and Potent Cytotoxicity", <i>J. Med. Chem.</i> , 44: 737-748 (2001)
		GREGSON, S.J. et al., "Effect of C2-exo Unsaturation on the Cytotoxicity and DNA-Binding Reactivity of Pyrrolo[2,1-c]1,4]benzodiazepines", <i>Bioorganic &amp; Medicinal Chemistry Letters</i> , 10: 1845-1847 (2000)
		GUIOTTO, A. et al., "Synthesis of novel C7-aryl substituted pyrrolo[2,1-c][1,4]benzodiazepines (PBDs) via Pro-N10-troc protection and suzuki coupling," <i>Bioorganic &amp; Medicinal Chemistry Letters</i> , 8, No. 21, 3017-3018 (1998)
		HARA et al., "DC 102, a new glycosidic pyrrolo(1,4)benzodiazepine antibiotic produced by <i>streptomyces</i> sp.", <i>J. Antibiotics</i> , 41, 702-704 (1988)
		HAUSKE, J. R. and DORFF, P., "Solid Phase CBZ Chloride Equivalent. A New Matrix Specific Linker", <i>Tetrahedron Letters</i> , 36, 10, 1589-1592 (1995)
		HOCART et al., "Highly potent cyclic disulfide antagonists of somatostatin," <i>J. of Medicinal Chem.</i> , 42:11 (1999)
		HOCHLOWSKI, J. et al., "Abbeymycin, a new anthramycin-type antibiotic produced by a streptomycete," <i>J. Antibiotics</i> , 40, 145-148 (1987)
		HOLMES, C.P. and JONES, D.G., "Reagents for Combinatorial Organic Synthesis: Development of a New O-Nitrobenzyl Photolabile Linker for Solid Phase Synthesis", <i>J. Org. Chem.</i> , 60, 2318-2319 (1995)

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			Application Number	10/824,743	
			Filing Date	April 15, 2004	
			First Named Inventor	David Edwin Thurston	
			Group Art Unit	1626	
			Examiner Name	Coppins, Janet L.	
Sheet	7	of	14	Attorney Docket Number	065435-9035

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		HUBER, B. et al., "Retroviral-mediated gene therapy for the treatment of hepatocellular carcinoma: An innovative approach for cancer therapy," <i>Proc. Natl. Acad. Sci. USA</i> , 88, 8039-8043 (1991)
		HURLEY, L. and NEEDHAM-VANDEVANTER, D., "Covalent Binding of Antitumor Antibiotics in the Minor Groove of DNA. Mechanism of Action of CC-1065 and the Pyrrolo(1,4)benzodiazepines," <i>Acc. Chem. Res.</i> , 19, 230-237 (1986)
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		KENNEDY, J.C. and POTTIER, R.H., "Endogenous protoporphyrin IX, a clinical useful photosensitizer for photodynamic therapy," <i>J. Photochem Photobiol</i> , 14, 275-292 (1992)
		KOHN, K., "Anthramycin," <i>Antibiotics III</i> , Springer-Verlag, NY, 3-11 (1975)
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		LEIMGRUBER, W. et al., "Isolation and characterization of anthramycin, a new antitumor antibiotic," <i>J. Am. Chem. Soc.</i> , 87, 5791-5793 (1965)

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			<b>Examiner Name</b>	Coppins, Janet L.	
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		LEIMGRUBER, W. et al., "The structure of anthramycin," <i>J. Am. Chem. Soc.</i> , 87, 5793-5795 (1965)
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		MORGAN, R.A. and ANDERSON, W.F., "Human Gene Therapy," <i>Annu. Rev. Biochem.</i> , 62, 191-217 (1993)

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		MOSMANN, T., "Rapid Colorimetric Assay for Cellular Growth and Survival: Application to Proliferation and Cytotoxicity Assays," <i>J. Immunological Methods</i> , 65, 55-63 (1983)
		MULLEN, D.G. and BARANY, G., "A New Fluoridolizable Anchoring Linkage for Orthogonal Solid-Phase Peptide Synthesis: Design, Preparation, and Application of the N-(3 or 4)-[[4-(Hydroxymethyl) phenoxy]-tert-butylphenylsilyl]phenyl Pentanedioic Acid Monoamide (Pbs) Handle", <i>J. Org. Chem.</i> , 53, 5240-5248 (1988)
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		PAIKOFF, S.J. et al., "The Solid Phase Synthesis of N-Alkylcarbamate Oligomers", <i>Tetrahedron Letters</i> , 37, No. 32: 5653-5656 (1996)
		PILLAI, V.N.R., "Photoremovable protecting groups in organic chemistry," <i>Synthesis</i> , 1-26 (1980)
		RAM, Z. et al., "In Situ Retroviral-mediated Gene Transfer for the Treatment of Brain Tumors in Rats," <i>Cancer Research</i> , 53, 83-88 (1993)
		RAWAL, V.H. et al., "Photocyclization Strategy for the Synthesis of Antitumor Agent CC-1065: Synthesis of Dideoxy PDE-I and PDE-II. Synthesis of Thiophene and Furan Analogues of Dideoxy PDE-I and PDE-II," <i>J. Org. Chem.</i> , 52, 19-28 (1987)
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		SIMON, R.J. et al., "Peptoids: A Modular Approach to Drug Discovery", <i>Proc. Natl. Acad. Sci. USA</i> , 89:9367-9371 (1992)
		SOTH, M.J. and NOWICK, J.S., "Unnatural oligomers and unnatural oligomer libraries", <i>Curr. Opin. Chem. Biol.</i> , 1:120-129 (1997)
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		THURSTON, D.E. et al., "Effect of A-ring modifications on the DNA-binding behavior and cytotoxicity of pyrrolo[2,1-c][1,4]benzodiazepines", <i>Journal of Medicinal Chemistry</i> , 42:1951-1964 (1999)
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		<i>Dictionary of Science and Technology</i> , Professor P.M.B. Walker ed. Larousse plc., pp. 63, 457, 523 (1995)

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